

Serial No.: 09/787,030

IN THE CLAIMS:

1.-12. (Canceled)

13. (Currently Amended) A method of controlling an appliance in a home network system for controlling a plurality of appliances, the method comprising:

maintaining in a first appliance, condition information about the appliance and setting information for communicating the condition information to a second appliance; and

transmitting from the first appliance, the condition information to the second appliance in accordance with the communication settings; and

controlling a linked operation for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

14. (Original) The method according to claim 13, wherein the setting information comprises first timing information indicating communication of the condition information upon every

Serial No.: 09/787,030

change in the condition information or second timing information indicating periodic communication of the condition information.

15. (Original) The method according to claim 13, wherein the setting information comprises information indicating presence or absence of at least one of the first and second timing information.

16. (Original) The method according to claim 13, wherein the setting information comprises information about a time interval of the periodic communication.

17. (Original) The method according to claim 16, wherein the setting information comprises information about an address of a receiver.

18. (Original) The method according to claim 14, wherein the setting information comprises information about a time interval of the periodic communication.

Serial No.: 09/787,030

19. (Original) The method according to claim 18, wherein the setting information comprises information about an address of an informed system-connected object.

20. (Original) The method according to claim 16, wherein the setting information comprise information about a time interval of the periodic communication.

21. (Original) The method according to claim 20, wherein the setting information comprises information about an address of an informed system-connected object.

22. (Currently Amended) The method according to claim 13, wherein the setting information ~~includes~~ comprises information about an address of an informed system-connected object.

23. (Currently Amended) The method according to claim 14, wherein the setting information ~~includes~~ comprises information about an address of an informed system-connected object.

Serial No.: 09/787,030

24. (Currently Amended) The method according to claim 15, wherein the setting information ~~includes~~ comprises information about an address of an informed system-connected object.

25. (Currently Amended) A method of controlling a first appliance in a home bus system for controlling a plurality of appliances comprising a first appliance and a second appliance, the method comprising:

maintaining condition information in the first appliance;
and

transmitting predetermined data to the second appliance when the condition information meets designated transmitting conditions; and

controlling a linked operation for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

26. (Original) The method according to claim 25, wherein information about the transmitting conditions comprises first information about a transmission designation indicating that

Serial No.: 09/787,030

transmission is made for every change in the condition information, and second information about a transmission designation indicating that transmission is made to a broadcast address or to a specific address.

27. (Original) The method according to claim 26, wherein the information about the transmitting conditions comprises information about a receiver.

C 28. (Original) The method according to claim 25, wherein information about the transmitting conditions comprises a transmission designation indicating that transmission is made periodically, information about a time interval for transmission, and information about a transmission designation indicating that transmission is made to a broadcast address or to a specific address.

29. (Currently Amended) The method according to claim 28, wherein the information about the transmitting condition ~~includes~~ comprises information about a receiver.

Serial No.: 09/787,030

30. (Currently Amended) A method of controlling a second appliance in a home bus system for controlling a plurality of appliances comprising a first appliance and a second appliance, the method comprising:

receiving and maintaining in a second appliance, data transmitted from the first appliance; and

self-controlling by the second appliance in accordance with the data; and

controlling a linked operation for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

31. (Currently Amended) A method of controlling a second appliance in a home bus system for controlling a plurality of appliances comprising a first appliance and a second appliance, the method comprising:

receiving in a second appliance, data transmitted from the first appliance;

Serial No.: 09/787,030

linking between second and first appliances based on the received data; and

storing information in the second appliance, about the first appliance upon linkage with the first appliance; and

controlling a linked operation for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

C 32. (Currently Amended) A method of setting conditions for transmission of data about a first appliance in a home bus system for controlling a plurality of appliances comprising the first appliance and a second appliance, the method comprising:

transmitting demand information from a first appliance for querying presence or absence of the second appliance, wherein the first appliance is for controlling the second appliance by a communication linkage;

receiving in the first appliance, response information transmitted by the second appliance in response to the demand information transmitted by the first appliance; and

Serial No.: 09/787,030

transmitting by a first appliance, a setting demand to the second appliance for causing the second appliance to set transmitting conditions, when the response information does not include information about the second appliance transmitting conditions or when transmitting conditions are not set; and

controlling a linked operation for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

C 33. (Currently Amended) An appliance in a home bus system for controlling a plurality of appliances, comprising:

condition control means for maintaining attribute information indicating a condition of the appliance;

setting information maintenance means for maintaining setting information designating a transmission method for every piece of the attribute information; and

attribute transmission means for transmitting the attribute information to another appliance, in accordance with the setting information; and

Serial No.: 09/787,030

linked operation means for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

34. (Currently Amended) A first appliance in a home bus system for controlling a plurality of appliances comprising a first appliance and a second appliance, the first appliance comprising:

condition control means for maintaining a condition of the first appliance;

means for maintaining transmitting conditions information for transmission to another appliance; and

data transmission means for transmitting a predetermined data to

the second appliance when the first appliance meets the transmitting conditions; and

linked operation means for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

Serial No.: 09/787,030

35. (Currently Amended) An appliance in a home bus system for controlling a plurality of appliances, comprising:

reception means for receiving data transmitted from another appliance;

conditions maintenance means for maintaining interlock conditions for interlock with another appliance; and

interlock control means for performing interlock control on the appliance when the received data meets the interlock conditions; and

linked operation means for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

36. (Currently Amended) An appliance in a home bus system for controlling a plurality of appliances, comprising:

transmission means for transmitting demand information for querying presence or absence of another appliance to be linked with the appliance;

Serial No.: 09/787,030

reception means for receiving response information transmitted from said another appliance in response to the demand information; and

conditions setting demand means for transmitting a setting demand to said another appliance for setting transmitting conditions, when the response information does not include information about the transmitting conditions for transmission to the appliance, or when information about the transmitting conditions is not set; and

linked operation means for controlling and efficient operation thereof in accordance with the condition information of the first appliance.

37. (Original) The appliance according to claim 36, wherein the transmitting conditions indicate conditions for said another appliance to transmit data to the appliance, the data indicating an operating condition of said another appliance.

Serial No.: 09/787,030

38. (Original) The appliance according to claim 37, further comprising a linked control means for performing a linked operation in accordance with data about an operating condition of said another appliance, the data being transmitted from said another appliance.

39. (Currently Amended) An appliance in a home bus system for controlling a plurality of appliances, comprising:

reception means for receiving demand information from another appliance, the demand information querying presence or absence of another appliance to be operated in linkage with the appliance;

conditions maintenance means for maintaining information about transmitting conditions for linkage with said another appliance;

search means for searching for the information about transmitting conditions for linkage with the appliance from the conditions maintenance means; and

Serial No.: 09/787,030

transmission means for transmitting response information comprising the information about transmitting conditions, in response to the demand information; and

linked operation means for controlling an efficient operation thereof in accordance with the condition information of the first appliance.

40. (Original) The appliance according to claim 39, further comprising an operation condition data control means for maintaining an operating condition, wherein

the appliance is for transmitting an operating condition of the appliance to another appliance, in accordance with the transmitting conditions.
